

CLAIMS:

1. An electronic headset, comprising:

(a) a housing having at least one opening therein, said housing being adaptable to be arranged at least partially within an ear of a user such that said at least one opening is directed toward the auditory canal within the user's ear;

(b) electronic circuitry arranged within said housing, said circuitry being adapted to transmit sound through said at least one opening of said housing;

(c) a mounting member connected to said housing and being adapted to rest within an external cavity of the user's ear; and

(d) a clamp connected to said housing for pivotal movement between a disengaged position where it is remote from the ear, and an engaged position where it is in contact with the rear side of an earlobe whereby secured assembly of the housing on the ear is obtained.

2. The electronic headset of claim 1 wherein said housing includes an extended portion, said at least one opening arranged through said extended portion, said extended portion arranged substantially adjacent the auditory canal of a user's ear but does not entirely occlude auditory canal.

3. The electronic headset of claim 2 wherein said mounting member is connected to said housing at said extended portion.

4. The electronic headset of claim 1 wherein said electronic circuitry comprises an electroacoustic transducer.

5. The electronic headset of claim 1 wherein said housing includes an inner member and an outer member connected to the inner member to define a chamber for mounting the electronic circuitry therein.

6. The electronic headset of claim 1 wherein said mounting member includes an arcuate neck portion which provides a resting surface for the housing against the user's ear.

7. The electronic headset of claim 1 wherein said mounting members has at least one bore formed therein, said at least one bore being substantially aligned with said at least one opening to form a conduit for the sound transmitted by said electronic circuitry.

8. An electronic headset, comprising:
a housing having at least one opening disposed therein, said housing being positionable at least partially within an ear of a user such that said at least one opening is directed toward the auditory canal within the user's ear; and

electronic circuitry arranged within said housing, said circuitry being adapted to convert acoustic energy into signals, and

wherein said housing includes an extended portion, said at least one opening arranged through said extended portion, said extended portion being positionable substantially adjacent the auditory canal of a user's ear without entirely occluding the auditory canal.

9. The electronic headset of claim 8 wherein said housing includes a mounting member projecting from said extended portion, said mounting member including an arcuate neck portion which provides a resting surface for the housing against the user's ear.

10. The electronic headset of claim 8 wherein housing includes a mounting member connected to said extended portion such that said mounting member fits in the concha of the user's ear.

11. The electronic headset of claim 8 wherein housing includes a mounting member detachably connected to said extended portion such that said mounting member fits in the concha of the user's ear.

12. The electronic headset of claim 8 wherein said electronic circuitry is adapted to transmit sound to a speaker disposed within said housing.

13. The electronic headset of claim 12 wherein said electronic circuitry is adapted to transmit sound to microphone disposed within said housing.

14. The electronic headset of claim 8 wherein said housing further includes circuitry for communicating between the electronic headset and a base unit.

15. An ear mounting assembly for electronic components having means for transmitting audio sounds, signals and communications to removably secure the electronic components in the cavity and on the lobe of the user's ear to enable the sounds, signals and communications to pass along with other sounds to the auditory canal of the user's ear comprising:

(a) a housing having an inner member and an outer member connected to the inner member to define a chamber for mounting the electronic components in the housing,

(b) said inner member having an inner face and an outer face, a main passageway extending transversely thereof, said passageway having one end adjacent the chamber and another end opening onto the inner face for transmitting the audio sounds, signals and communications, and a connecting means on the inner surface about the opening formed by the passageway,

(c) an inner section having an arcuate section, and a connector about the end of the arcuate section for connecting the ear section to the inner surface of the inner housing, and a shaped ear pad connected to the end of the arcuate section remote from the connected end of the arcuate section, and a bore extending end-to-end through the ear section communicating at one end with the enlarged passageway and at the other end open for transmitting the audio sounds, signals and communications, and

(d) a clamping assembly pivotally connected to the inner housing remote from the ear section removable from a disengaged position to an engaged position with the lobe of the user's ear for detachably connecting the ear mounting

member and the electronic components therein into operative relation with the auditory canal of the ear to pass said sounds, signals and communications to the auditory canal without interfering with the ability of the ear to hear other sounds.

16. In the ear mounting assembly for an electronic component as in claim 15, including means on the clamping section to adjust the force for holding the backing means and electronic component in assembled position.

17. In the ear mounting assembly for electronic components as in claims 15, wherein the ear pad has an oval-shaped face at the end remote from the end connected to the arcuate section to enable the ear pad to be fitted into the cavity of the ear when the ear mounting assembly is connected to the ear for passing the audio sounds, signals and communications to the auditory canal of the ear.